

PHASE I BOOK EXPLOITATION SOV/2252

5(2)

Akademiya nauk SSSR. Institut obshchey i neorganicheskoy khimii  
Khimiya redkikh elementov, vyp. 3 (Chemistry of Rare Elements, Nr 3) Moscow,  
Izd-vo AN SSSR, 1957. 135 p. 4,500 copies printed. Errata slip inserted.

Ed. of Publishing House: Yu. S. Sklyarenko; Tech. Ed.: A. A. Pavlovskiy;  
Editorial Board: I. V. Taranayev (Resp. Ed.), S. A. Pogodin, Ye. Ya.  
Rode, V. G. Tronev, and O. F. Bogush (Secretary).

PURPOSE: The book is intended for scientists and engineers concerned with the  
study and utilization of rare elements.

COVERAGE: The book is a collection of papers on investigations in the chemistry  
of rare elements conducted at the Institut obshchey i neorganicheskoy khimii  
imeni N. S. Kurnakova (Institute of General and Inorganic Chemistry imeni  
N. S. Kurnakov). No personalities are mentioned. There are 143 references:  
59 Soviet, 23 English, 41 German, 15 French, 4 Italian, and 1 Japanese.

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Chemistry of Rare Elements, Nr 3

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AVAILABLE: Library of Congress	TM/mg
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S/182/60/000/009/002/012  
A161/A029

AUTHORS: Remenik, V.S.; Rudman, L.I.

TITLE: Edging Rectangular Holes

PERIODICAL: Kuznechno-shtampovochnoye proizvodstvo, 1960, No. 9, pp. 5 - 8

TEXT: A new method of edging rectangular holes in sheet steel parts is described. It has been suggested by Engineer V.S. Remenik of Kiyevskoye optytno-konstruktorskoye byuro torgovogo mashinostroyeniya (Kiyev Experiment Design Bureau of Commercial Machine-Building) and eliminates the necessity of using multi-operation extrusion with wide flange and subsequent punching of the bottom, which takes many expensive dies and cannot be used for making decorative parts because of traces left on the metal. The authors (including the inventor) have developed calculation formulas for the possible edging depth, the shape and dimensions of the hole (before edging), fundamental relations showing if the method can be used in a given case, and the permissible correlation of the fundamental parameters. The method makes possible edging rectangular holes in a single press stroke and obtaining a relatively high edge with small transition radius on the corners. The essence of the method is formation of the edge by displacement of metal from

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S/182/60/000/009/002/012  
A161/A029

Edging Rectangular Holes

the bottom through spreading of a special technological opening in it. The calculation is given and illustrated by diagrams. Two ready parts are shown produced on a friction press in an experimental die from two steel grades with best properties for extrusion: 08-10KmBГ (08-10kpVG) and 1X18H9T (1Kh18N9T). A practical case is calculated for explanation: edging a rectangular part of 1 mm thickness;  $R_y = 6$  mm;  $B = 82$  mm;  $r_1 = 2.5$  mm;  $r_2 = 1.5$  mm. There are 6 figures.

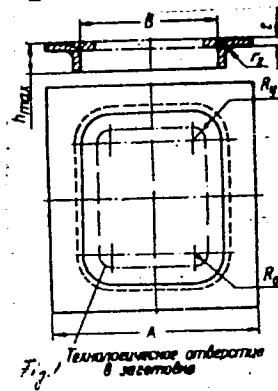


Figure 1. Technological hole in the billet

Card 2/2

RNEZ, V

CZECHOSLOVAKIA / Chemical Technology. Chemical Products. H  
Food Industry.

Abs Jour: Ref Zhur-Khimiya, 1958, No 20, 69057.

Author : Rnez V., Likar O.

Inst : Not given.

Title : Investigation of the Correlation Between Certain Components and Quality of Milk.

Orig Pub: Prumysl potravin, 1958, 9, No 3, 119-122.

Abstract: A possibility of utilizing correlations for the purpose of evaluating qualities of milk, milk products, and cheeses is reviewed. Examples of the protein determination from the fat content and specific gravity by means of a graphical method are presented.

Card 1/1

СССР, Л. В.

21) ЛУЧЕК, А. А. Информатор, склоняющийся к тому, что в МИ на телеканале  
речь о "Маршале" произошла не в Кремле, а в Белом доме (ин-т связи).

22) ЛУЧЕК, А. А.

23) Литературный музей СССР, №. 2, Москва, 1971.

RO: I L

New dessert wines [produced] in the Central Asia Branch  
of the Institute "Magarech." (S. P. Kondo and I. L. Ro,  
*Vinodelie i Vinogradarstvo S.S.R.* 8, No. 9, 14-17)

In a 5-year research period, 7 varieties of grapes were selected for the production of high-quality dessert wines in Uzbekistan. The grape varieties contain 26.3-31.2% sugar and 4.1-8.8 g./l. titratable acidity. The grape must is treated with 1-2% of pure cultures of Saperavi-Teliani or Steinberg yeasts; fermented for a short time, made to 4 vol. % alc., fermented again for 2-3 days, and made to 11-13 vol. % alc. by addn. of a rectified alc. The products have d. 1.0744-1.1075, alc. 13.05-15.99, total sugars 20.80-29.80, glucose 0.48-12.80, fructose 11.28-17.73, extractive material 31.6-64.8, glycerol 1.82-3.79, titratable acidity 3.83-7.01, volatile acids 0.18-0.87, tartaric acid 0.52-1.63, lactic acid 0.54-2.47, tannins and coloring substances 0.587-2.110, enotannin 0.492-1.552, ash 1.10-3.47, alky. 0.80-5.83 g./l., and pH 3.77-4.60. The dessert properties are intensified by the presence of relatively high fructose.

R. Wierblecki

BOLGAREV, P. T., RO, L.M. (Reviewed by)

Bolvarev, P. T.

"Viticulture in Crimea." P. T. Bolgarev. Reviewed by L.M. Ro. Sad i og. No. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, \_\_\_\_\_ 1953. Unclassified.

RO, Lev Mikhaylovich

(Moscow Order of Lenin Agricultural Academy imeni Timiryazev and Crimean Agricultural Inst imeni Kalinin), Academic degree of Doctor of Agricultural Sciences, without dissertation.

Academic degree and/or title: Doctor of Sciences

SO: Decisions of VAK, List no. 24, 26 Nov 55, Byulleten' MVO SSSR, No. 20, Oct 57, Moscow, pp 22-24, Unc1. JPRS/NY-471

KOCHER, T.; INTUCHA, Z.

The influence of zinc sulfate in the rayon spin bath on the strength of the fibers. p. 235.

PRZEMYSŁ CHEMICZNY. Ministerstwo Przemysłu Chemicznego i Stowarzyszenie Naukowo-Techniczne Inżynierów i Techników Przemysłu Chemicznego. Warszawa, Poland, Vol. 38, No. 4, 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 9, September, 1959.  
Uncl.

1. RAVDOROV, V. A.
2. USSR (400)
4. Electric Lines
7. Taking wave process into account in analysing the static stability of long distance, electric transmission line. -elektrichestvo No. 3, 1973.

9. Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

ROAS, IVAN

Zagreb. Zagreb (Turisticki savez za kotar Zagreb) 1956. 176 p.  
(Zagreb. illus, maps)

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,  
April, 1958

RoB L.

17 19  
5

Protonic decay of a  $\Xi^0$  hyperon with an associated electron pair. Ladislav Rob and Zdenek Sormo (Czechoslovak Univ., Prague). Nuclear Phys., 13, 300-1 (1959).—Nuclear emulsion plates were irradiated with  $K^-$  mesons from a Berkeley accelerator. The  $\Xi^0$  hyperon was emitted from a star produced by  $K^-$  meson capture at rest; i.e., pion and a recoil were observed simultaneously. The proton energy was estd. from its range to be  $(29.4 \pm 0.6)$  m.e.v.  
Norman R. Phipps

LAK 411

R9B,

L  
CZECHOSLOVAKI/Nuclear Physics - Elementary Particles.

C

Abs Jour : Ref Zhur Fizika, No 1, 1960, 430  
Author : Korbek, Zdenek; Rob, ladislav  
Inst : Faculty for Technical and Nuclear Physics, Prague,  
Czechoslovakia  
Title : Meson Decays of Light Hypernuclei  
Orig Pub : Ceskosl. casop. fys., 1959, 9, No 1, 57-59  
  
Abstract : The authors have measured the binding energy of five  
light hypernuclei, produced in the capture of  $K^-$   
mesons by photomulsion nuclei. The following re-  
sults were obtained (the brackets contain the bin-  
ding energies in Mev):  $He^5$  ( $1.9 \pm 0.5$ );  $He^4$   
( $0.8 \pm 0.5$ ),  $He^7$  ( $2.7 \pm 0.6$ ),  $H^3$  ( $0.0 \pm 0.5$ ),  $H^4$   
( $1.3 \pm 0.4$ ). -- V.I. Lend'yel

Card 1/1

19  
Meson decay of light hyperfragments. Zdenek Korbel  
and Ladislav Rob (Fac. Nuclear Mech. Phys., Prague).  
*Czechoslov. J.-Phys.* 9, 288-90(1959)(in Russian).—The  
binding energies of 5 types of light hyperfragments, i.e., of  
nuclei of light elements containing one hyperon instead  
of one neutron, are measured. The hyperfragments origi-  
nate by means of the interaction of  $K^-$  mesons with the  
nuclei of light elements contained in the emulsion.  
A. Kremheller

2-4E3c  
4E3c

3

~~REF ID: A6511~~, Ladislav

CZECHOSLOVAKIA / Magnetism. Experimental Methods of Magnetism. F-2

Abs Jour : Ref Zhur - Fizika, No 3, 1957, 6828

Author : Rob Ladislav

Title : Nuclear Magnetometer

Orig Pub : Ceskosl. casop. fys., 1956, 6, No 3, 347 - 351

Abstract : Description of a magnetometer for a measurement range from one to ten kilogauss with an accuracy  $\pm 2 \times 10^{-3}$  percent, based on the phenomenon of nuclear induction.

Card : 1/1

ROBACHEVSKAYA, Ye.G.

Pathological anatomy and pathogenesis of postoperative pneumonia  
[with summary in English]. Trudy LSGMI 41:90-104 '58 (MIRA 11:11)

(PNEUMONIA,

postop., pathol.anat & pathogen. (Rus))

(SURGERY, OPERATIVE, compl.

postop. pneumonia, pathol. anat. & pathogen (Rus))

ROBACHEVSKAYA, Ye.G.

Pneumonia in cases of skull wounds. Trudy LSGMI 45:230-238 '58  
(MIRA 11:11)

1. Kafedra patologicheskoy anatomii Leningradskogo sanitarno-gigienicheskogo meditsinskogo instituta (zav. kafedroy-chlen-korrespondent AMN SSSR, prof. V.D. TSinzerling).

(PNEUMONIA)  
(SKULL--WOUNDS AND INJURIES)

ROBACHEVSKAYA, Ye.G., Cand Med Sci -- (diss) "On the  
ical anatomy  
pathology and pathogenesis of post-operative pneumonias."  
Len, 1958, 18 pp (Min of Health RSFSR. Len Sanitary Hygiene  
Med Inst. Chair of Pathological Anatomy) 200 copies  
(KL, 32-58, 112)

- 80 -

R.B.Hawkins

Robekowski, T. Influence of Electrode Types on Fatigue Strength of Welded Joints in St 37S Steel.

,Wpływ rodzaju elektrody na wytrzymałość zmęczeniową połączan spawanych ze stali St 37S". Przegląd Spawalnictwa, No. 10, 1955, pp. 209-203, 12 figs, 2 tabs.

A detailed discussion of fatigue tests carried out at the Institute of Welding on welded joints. The aim of the tests was to find a basis for computing the strength of such joints. From the results and from considerations of the mechanical properties of the particular kinds of joints, the conclusion is reached that where high reliability is essential, basic electrodes are the most suitable for welding. This is because the molten flux of basic electrodes contains less oxygen, nitrogen and hydrogen than do other electrodes. It is pointed out that fatigue strength in joints welded automatically with a shielded arc is, in spite of their relatively low

3

the low nitrogen content.

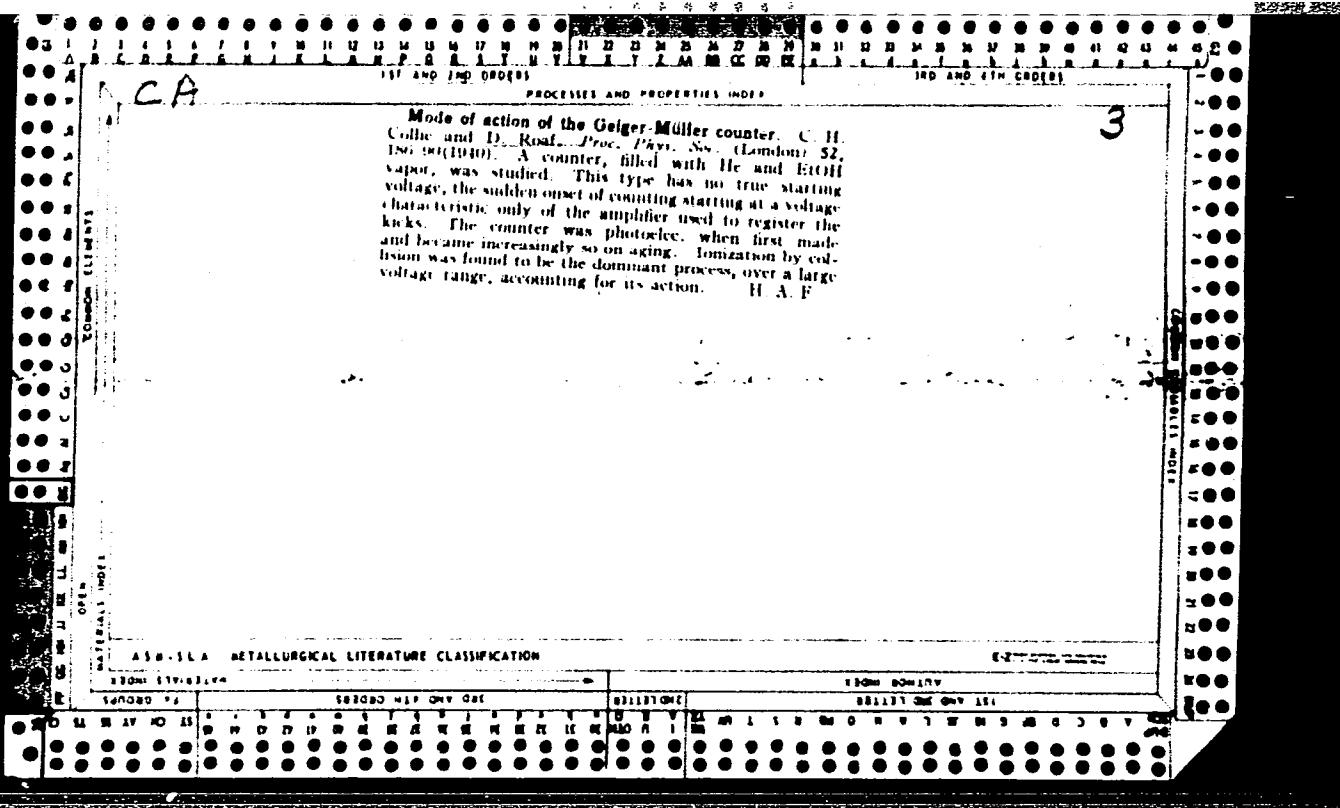
Rosciszewski, Jan

✓ ZAGADNIEŃ PRZEPŁYWU CIECZY W PRZE-  
WODACH ROZGAŁDZIONYCH Z UWZGLEDNIE-  
NIEM WYMIANY CIEPLA. Jan Rosciszewski.  
Arch. Budowy Maszyn, No. 4, 1966, pp. 155-161.  
In Polish, with summaries in English and Russian.  
Analysis of the problem of flow in ramified tubes,  
taking into account the effects of heat exchange.  
Starting from the Navier-Stokes equations, a formula  
is derived for the change of pressure on a segment  
of a single vertical tube under the assumption  
of constant (mean) value of the viscosity coefficients  
of the fluid and of heat conduction. A method is  
presented for calculating the rate-of-flow distribu-  
tion in the ramifications for flow in tubes with para-  
lel ramifications in the form of heaters. A method  
is also developed for determining the number of  
heater ribs. Includes investigation of a substitute  
solution.

ROACIŚEWSKI, JAN

6 METODACH OBLICZENIA WZAJEMNEGO  
ODDZIAŁYWANIA FALI ROZRZEDZENIOWEJ I <sup>peru</sup>  
FALI UDERZENIOWEJ. Jan Radzięcki. Rocznik  
prawy Inżynierskie, No. 2, 1957, pp. 241-268. In  
Polish, with summaries in English and Russian.

Methods for the analysis of the interaction between  
a shock wave and a simple rarefaction wave in a  
one-dimensional, unsteady flow. The solutions  
involve replacing the fundamental differential equa-  
tions by finite difference equations. In the first  
case, the solution is obtained by using the auxiliary  
plane in which the line representing the state of the  
gas just behind the shock wave is determined in  
advance. The second method gives good approxi-  
mations for small shock intensity, taking into ac-  
count the reflected or translated simple rarefaction  
wave. Also discussed are Gairinger's method //  
based on the Lagrangian representation as well as  
the Neuman's mechanical model //



ROB, L.

ROB, L. Nuclear magnetometer. p. 347. Vol. 6. no. 3, May 1956.  
CFSKISLOVENSKY CASOPIS PRO FYSIKU Praha, Czechoslovakia.

SOURCE: East European Accessions List (EAL) Vol. 6, No. 4 April 1957

RoB, L.

67003

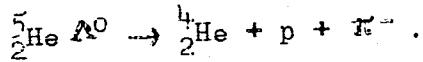
CZECH/37-59-1-9/26

24,6900  
AUTHORS: Zdeněk Korbel, Ladislav Rob

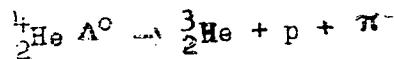
TITLE: Meson Decays of Light Hyperfragments

PERIODICAL: Československý Časopis Pro Fysiku, 1959, Nr 1, pp 57-59

ABSTRACT: About 80 meson decays of hyperfragments have so far been reported (Refs 2, 3). In agreement with Ref 4, we assume that further measurements on hyperfragments are useful for a more accurate determination of the binding energies between the hyperon  $\Lambda^0$  and the nuclei. In a nuclear emulsion exposed to  $K^-$  mesons in the Berkeley accelerator, we have found several decays of hyperfragments at rest. We deduced the binding energies using Refs 5-9. The first hyperfragment disintegrated into three charged particles, which were identified as:



The binding energy of the hyperon was  $(1.9 \pm 0.5)$  MeV. The second hyperfragment decayed according to:



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S/120/61/000/001/011/062  
E052/E114

AUTHORS: Gramenitskiy, I.M., Korbel, Z.. and Rob, L.

TITLE: Determination of the Sign of Particles Recorded in an Emulsion

PERIODICAL: Pribory i tekhnika eksperimenta, 1961,<sup>6</sup>, No.1, pp.42-44

TEXT: A stack of emulsions was placed in the internal proton beam of the 9 GeV synchrophasotron. The magnetic field at the stack was about 1.2 koersted, and a measurement was made of the deflection of the secondary charged particles by the magnetic field. The ratio of the change in the direction of a track due to the magnetic field  $\theta_M$  and due to multiple scattering  $\theta_K$  is given by:

$$\theta_M/\theta_K = 3.5 \times 10^{-5} H\beta/t$$

where  $H$  is the magnetic field in koersted,  $t$  is the distance in cm, and  $\beta$  is the ratio of the velocity of the particle to the velocity of light. For large energies ( $\beta \rightarrow 1$ ) the ratio is a function of  $H$  and  $t$  only. A reliable determination of the sign

Card 1/4

S/120/61/000/001/011/062  
EO32/E114

Determination of the Sign of Particles Recorded in an Emulsion  
of the particles can be made when  $\bar{G}_M/\bar{G}_K \gg 1$ . However, this  
requires fields of a few tens of koe and track lengths of some  
tens of cms. However, it is often sufficient to consider the  
statistical distribution of the particles over the signs. It is  
then sufficient to use much smaller track lengths and to determine  
the distribution of the quantity

$$\gamma = G_M/\bar{G}_K \sqrt{t}$$

C.C. Dilworth et al. (Ref. 2) and C.C. Dilworth et al. (Ref. 3)  
have determined the signs of charged particles, using emulsions  
placed in a magnetic field of 34 koe. They have measured the  
angles  $\theta_i$  for successive cells over a total length  $t$ , and  
calculated the quantity

$$\gamma = \sum \theta_i / \sum \theta_i \sqrt{t}$$

Their results show that this method can be used to determine the  
signs of charged particles. However, the present authors point  
Card 2/4

S/120/61/000/001/011/062  
E032/E114

Determination of the Sign of Particles Recorded in an Emulsion

out that the above method is sensitive to C-distortions which may imitate magneyic deflections. In the case of an emulsion irradiated with a well-collimated beam of high-energy particles, the effect of the distortions may be minimised by measuring the angles  $\theta_M$  of secondary particles relative to the beam axis, as indicated by V.I. Veksler. The present authors have used a stack of НИКФИ-Р (NIKFI-R) emulsions containing  $10 \times 20 \times 0.04 \text{ cm}^3$  plates. Secondary tracks produced on interaction between the primary protons and the emulsion nuclei were selected subject to the following conditions: a) the dip angle must be less than  $4^\circ$ , b) the magnitude of  $p\beta$  as estimated from multiple scattering must be of the order of 1-2 GeV/c, and c) the angle between the primary track and the secondary track in the plane of the emulsion must be less than  $30^\circ$ . 20 secondary tracks were measured (total length  $155 \times 3 \text{ cm}$ ). It was found that statistical determination of the signs of the particles was possible with  $t \sim 6-10 \text{ cm}$ . The following results were obtained:  $|\gamma| = 0.45 \pm 0.04$ ,  $\gamma_+ = +0.46 \pm 0.04$ , and  $\gamma_- = -0.44 \pm 0.08$ .

Card 3/4

S/120/61/000/001/011/062  
E032/E11<sup>4</sup>

Determination of the Sign of Particles Recorded in an Emulsion

The theoretical values of these quantities (including multiple scattering effects) are 0.47, +0.48 and -0.45 respectively. With fields higher by a factor of 5, momenta of fast particles could also be determined.

Acknowledgements are expressed to M.Ya. Danysh, V.B. Lyubimov, M.I. Podgoretskiy for valuable advice, and to A.I. Maklachkova for taking part in the measurements.

There are 2 figures and 3 references: 1 Soviet and 2 non-Soviet.

ASSOCIATION: Ob'yedinennyj institut Yadernyh issledovanij  
(Joint Institute of Nuclear Research)

SUBMITTED: January 6, 1960

Card 4/4

VISHKI, T.; GRAMENITSKIY, I.M.; KORBEL, Z.; NOMOFILOV, A.A.; PODGORETSKIY,  
M.I.; ROB, L.; STREL'THOV, V.N.; TUVENDORZH, D.; KHVASTUNOV, M.S.

Inelastic interactions between protons and nucleons at an energy  
of 9 Bev. Zhur.eksp.i teor.fiz. 41 no.4:1069-1075 0 '61.  
(MIRA 14:10)

1. Ob'yedinennyi institut yadernykh issledovaniy.  
(Protons) (Nucleons)

L 22122-66 EWT(1)

ACC NR: AP6004922

SOURCE CODE: UR/0056/66/050/C01/C076/0077

38  
B

AUTHOR: Kirillova, L. F.; Nikitin, V. A.; Sviridov, V. A.; Strunov, L. N.;  
Shafranova, M. G.; Korbel, Z.; Rob, L.; Zlateva, A.; Markov, P. K.; Todorov, T.;  
Khristov, L.; Chernev, Kh.; Dalkhazhav, N.; Tuvdendorzh, D.

ORG: Kirillova; Nikitin; Sviridov; Strunov; Shafranova, Joint Institute of  
Nuclear Research, Dubna (Ob'yedinennyi institut yadernykh issledovanii); Korbel;  
Rob, Czechoslovakian Higher Technical School, Prague (Chekhoslovatskoye Vyssheye  
tekhnicheskoye uchilishche); Zlateva; Markov; Todorov; Khristov; Chernev, Physics  
Institute, Bulgarian Academy of Sciences, Sofia (Fizicheskiy institut Bolgarskoy  
Akademii nauk); Dalkhazhav; Tuvdendorzh, Institute of Chemistry and Physics,  
Mongolian Academy of Sciences, Ulan-Bator (Institut khimii i fiziki Mongol'skoy  
Akademii nauk)

TITLE: Real part of the pp elastic scattering amplitude at 2, 4, 6, 8, and 10 Gev

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 50, no. 1, 1966,  
76-77

TOPIC TAGS: proton scattering, elastic scattering, scattering amplitude, differ-  
ential cross section, nuclear scattering  
Card 1/2

2

L 22122-66

ACC NR: AP6004922

ABSTRACT: This is a continuation of earlier work by the authors (Phys. Lett. v. 13, 93, 1964) in which they present results of the measurements of the real part of the nuclear elastic scattering amplitude for an energy of 4 Gev, and more precise data for energies 2, 6, 8, and 10 Gev, taking into account the relativistic corrections. The experimental technique was described elsewhere (PTE no. 6, 18, 1963). The differential cross section was measured in the interval  $0.003 < |t| < 0.2$  ( $\text{Gev}/c^2$ ) ( $t$  = momentum transfer squared). The analysis of the obtained data as well as those reported by others was based on the Bethe formula (Ann. of Phys. v. 3, 190, 1958) with allowance for radiative corrections. The results agree well with the theoretical curve proposed by Soding (Phys. Lett. v. 8, 286, 1963), up to an energy of 20 Gev, above which some discrepancy appears. Orig. art. has: 1 figure and 2 formulas.

SUB CODE: 20/ SUBM DATE: 25Aug65/ ORIG REF: 001/ OTH REF: 008

Card 2/2 BK

KIRILLOVA, L.F.; NIKITIN, V.A.; FANTUYEV, V.S.; SVIRIDOV, V.A.; STRUMOV, L.N.; KHACHATURIAN, M.N.; KHRISTOV, L.G.; SHAFRANOVA, M.G.; KORBEL, Z.; ROB,L.; DAMYANOV, S.; ZLATEVA, A.; ZLATANOV, Z.; YORDANOV, V. [Iordanov,V.]; KANAZIRSKI, Kh.; MARKOV, P.; TODOROV, T.; CHERNEV, Kh.; DALKHAZHAV, N.; TUVDENDORZH, D.

Elastic pp and pd-scattering at small angles in the energy range  
2 - 10 Bev. IAd. fiz. 1 no.3:533-539 Mr '65. (MIRA 18:5)

1. Ob"yedinennyi institut yadernykh issledovaniy. 2. Vyssheye  
tekhnicheskoye uchilishche, Praga (for Korbel, Rob). 3. Fizicheskiy  
institut Bolgarskoy Akademii nauk, Sofiya (for Damyanov, Zlateva,  
Zlatanov, Yordanov, Kanazirski, Markov, Todorov, Chernev). 4. Institut  
khimii i fiziki, Ulan-Bator, Mongol'sakaya Narodnaya Respublika (for  
Dalkhazhav, Tuvdendorzh).

CZECHOSLOVAKIA

Ondřík ROB "and collective" [i.e. his staff], Department of Physiology  
and Pathology of Reproduction (Oddelení fyziologie a patologie  
rozmnožování) of Veterinary Hospital (veterinární nemocnice) Chief  
(Vedoucí) M. RYZANEK DVM; Pardubice.

"Morphological Studies of Bovine Semen in Tracing Pathological Changes  
and Their Hereditary Significance."

Prague, Veterinární Medicina, Vol 7, No 12, Dec 62; pp 843-854.

Abstract [English summary modified]: Morphological examination of semen  
is essential when eliminating bulls from breeding service, for records.  
Prepare semen within 20 minutes, dilute with saline or centrifuged  
semen plasma, fix with 5% aqueous formalin, fix for 30 to 45 minutes  
(not in flame.) Stain with 6 Giemsa, 4 Sorensen phosphate buffer pH 7  
and 70 distilled H<sub>2</sub>O for 8 to 12 hours; view under 1000X oil immersion  
with green filter; count at least 400 sperm, measure heads. Table;  
6 photomicrographs; 1 Polish, 5 Czech, 11 Western references.

2/1

ROB, O.

CZECHOSLOVAKIA

ROB, O., DVM.

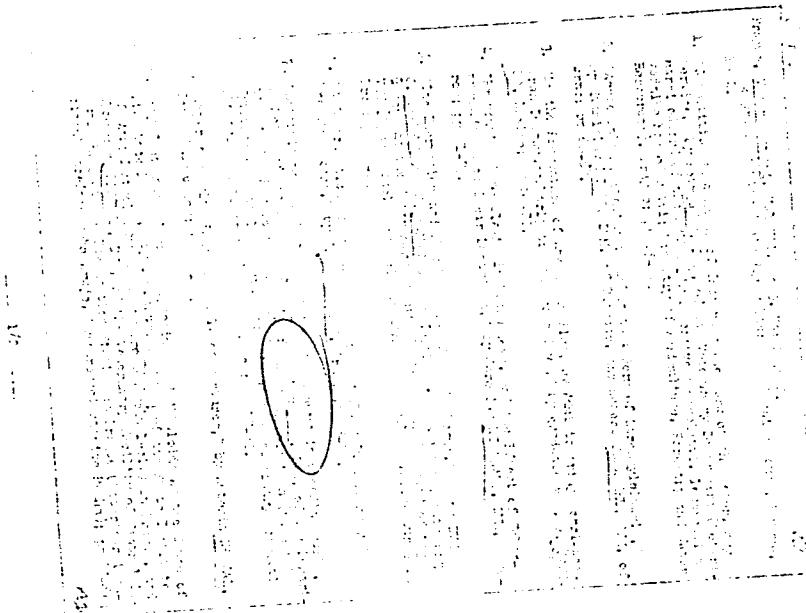
Pardubice

Prague, Veterinarstvi, No 4, 1963, pp 161-166

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Morphological Changes in Sperm of Bulls."

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444"

RoB, O.



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ROB, S.G., professor (Angliya)

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small rapid centrifuge)

ROBACHEVSKAYA, Ye. G.

AID P - 1409

Subject : USSR/Medicine

Card 1/2 Pub. 37 - 6/23

Authors : Levina; E. N., Senior Scientific Worker,  
Robachevskaya, Ye. G., Scientific Worker

Title : Alterations in pulmonary tissue when  
manganese oxides are introduced into the  
trachea

Periodical : Gig. i san., 1, 25-28, Ja 1955

Abstract : Tests are described and the effect of  
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 $MnO_2$ ) on young rats is examined. On the  
basis of the obtained data, the deduction  
is made that the inhaled manganese-oxide  
dust can produce transformations in the  
lungs and cause diseases. 2 illus., table,  
5 ref. (2 Russian 1951, 1953)

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AMN SSSR prof. V.D.TSinzerling [deceased]) Leningradskogo sanitarno-  
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trichomeniasis in child.)

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(UMBILICAL CORD) (EXTREMITIES)

(ABNORMALITIES) (FETAL DISEASES)

(INFANT, NEWBORN, DISEASES)

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Kwapinski

(PREGNANCY TESTS)  
(GYNECOLOGY diag)

ROBACZYNSKI, Jerzy (Wroclaw, ul. Chalubinskiego 3)

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\* For the Degree of Doctor of Medical Sciences

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(ANTITUBERCULAR AGENTS)  
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ROBAKIEWICZ, Wojciech

Influence of the action of a ship screw on the bottom at the quay.  
Rozpr hydrotechn no. 15:187-190 '64.

ACC NR: AP6029400 (A,N)

SOURCE CODE: P0/0087/66/000/006/0224/0226

AUTHOR: Robakiewicz, Wojciech (Doctor, Engineer)

ORG: Institute of Marine Construction, PAN, Gdańsk (Instytut Budownictwa Wodnego  
PAN)

TITLE: Method for the determination of the bottom area washed away by the effect of  
the stream behind the screw

SOURCE: Technika i gospodarka morska, no. 6, 1966, 224-226

TOPIC TAGS: marine engineering, ship, mathematic method, ship component

ABSTRACT: The problem of bottom wash-away due to the movement of the port or harbor  
floor by ships undergoing mooring tests or under way at slow speeds but with intensive  
screw action is discussed. The article presents the results, findings, and recommen-  
dations derived from a study project, conducted since 1961 by the Laboratory for Naval  
Hydraulics, IBW, PAN (Pracownia Hydrauliki Morskiej IBW PAN), involving both theoreti-  
cal experimental investigations with the type B-20 trawler, the "Bizon" tug (at  
Wroclaw), and with pier ferries (at Swinoujscie). The theoretical analysis of the  
findings derived from operations with the B-20 trawler are treated in detail. Math-  
ematical formulas are given for various aspects of screw theory and related phenomena,  
taking into consideration such factors as stream velocity behind the screw, depth of  
stream penetration for different degrees of screw emersion and bottom configuration,

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rudder position effect, etc. Velocity boundary conditions are studied by means of the Goncharov formula, and it is shown that, broadly speaking, the mechanism of bottom wash-away varies from location to location. On the basis of these findings, the author proposes a method whereby, if a number of factors are known, it is possible to determine the necessary area of reinforcement of the bottom or of increased debris granulation. Orig. art. has: 2 formulas and 1 figure.

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 001

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